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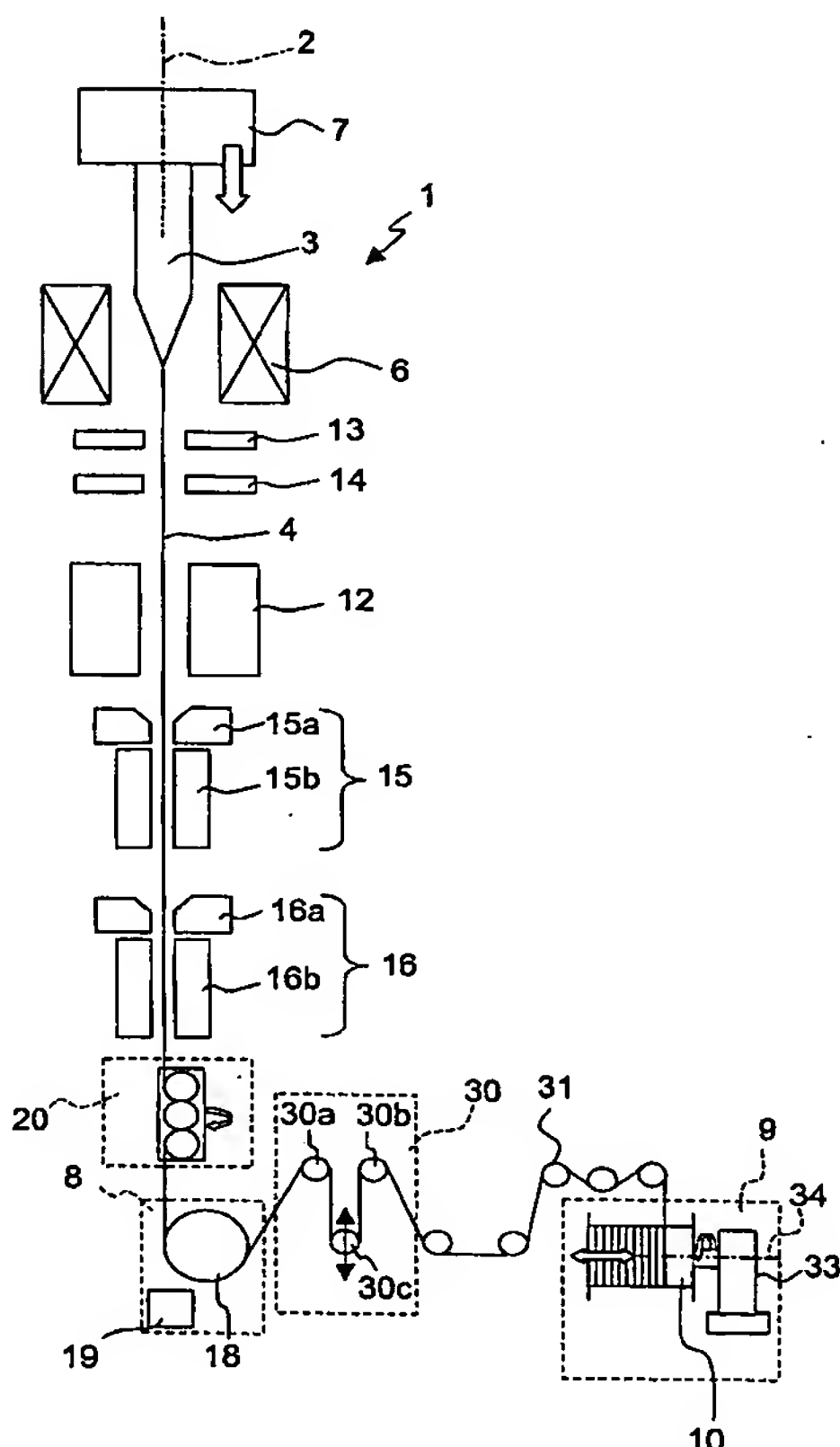
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(54) Title: PROCESS FOR PRODUCING A LOW POLARIZATION MODE DISPERSION OPTICAL FIBER



(57) Abstract: In a process for producing a low polarization mode disper-  
sion optical fiber, which comprises the steps of drawing a glass preform into  
an optical fiber and of spinning, during drawing, the optical fiber about an  
optical fiber axis, the spinning is imparted according to a bidirectional and  
substantially trapezoidal spin function, which includes zones (P) of substan-  
tially constant amplitude (plateau) and zones of transition (T) where inver-  
sion of the spin direction takes place, wherein the extension (p) of the zones  
of substantially constant amplitude is greater than the extension (t) of the zones  
of transition, and the number of inversions of the direction of spin in a length  
of fiber of 20 m is at most two.



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